

User Manual

RKP1617 / 1619 LCD Keyboard Drawer



- 1U 17", 19" screen size
- Desk top size keyboard

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1.1 Important Safeguards

Chapter 1

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

What the warranty does not cover

| Any product, on which the serial number has been defaced, modified or removed. | | | | | |
|---|--|--|--|--|--|
| Damage, deterioration or malfunction resulting from: | | | | | |
| ☐ Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product. | | | | | |
| ☐ Repair or attempted repair by anyone not authorized by us. | | | | | |
| ☐ Any damage of the product due to shipment. | | | | | |
| ☐ Removal or installation of the product. | | | | | |
| ☐ Causes external to the product, such as electric power fluctuation or failure. | | | | | |
| ☐ Use of supplies or parts not meeting our specifications. | | | | | |
| □ Normal wear and tear. | | | | | |

■ Removal, installation, and set-up service charges.

 $\hfill \square$ Any other causes which does not relate to a product defect.

1.2 Regulatory Notice

Chapter 1

Legal Information

First English printing, October 2002

Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

Safety Instructions

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the drawer is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equip ment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

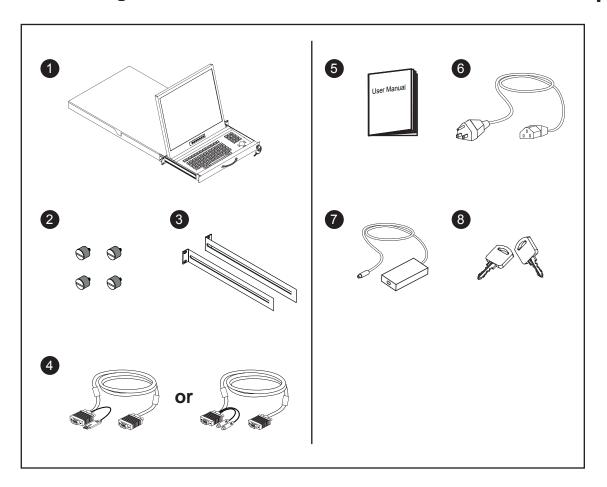
Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

1.3 Package Contents

Chapter 1



- 1 LCD keyboard drawer x 1 pc
- 2 Fasteners for rear L-bracket x 4 pcs
- 3 330mm rear mounting L-bracket x 1 pair * Mounting depth-adjustable from 650 to 895mm
- **4 CB-6** 2-in-1 USB KVM cable x 1 pc **Ol CD-6** 3-in-1 PS/2 KVM cable x 1 pc
- (5) User manual x 1 pc
- 6 Power cord x 1 pc
- 7 Auto switch power adapter x 1 pc
- 8 Key x 2 pcs

1.4 Before Installation

Chapter 1

- It is very important to locate the LCD Keyboard Drawer in a suitable environment.
- The surface for placing and fixing the LCD Keyboard Drawer should be stable and level or mounted into a suitable cabinet.
- Make sure the place has good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.
- Position LCD Keyboard Drawer with respect to related facilities.

1.5 Unpacking

The LCD keyboard drawer comes with the standard parts shown on the package contents. Check and make sure they are included and in good condition. If anything is missing, or damage, contact the supplier immediately.

1.6 Optional Accessories

1. PS/2 3-in-1 KVM cable

1.1 CD-6 6 feet

1.2 CD-10 10 feet

1.3 CD-15 15 feet

1.4 CD-33 33 feet

2. USB 2-in-1 KVM cable

2.1 CB-6 6 feet

2.2 CB-10 10 feet

2.3 CB-15 15 feet

3. SUN / iMAC USB to PS/2 adapter

3.1 SUN-31 kit

4. Extended rear mounting L-bracket

4.1 430mm (16.9") extended rear L-bracket up to 995mm

*Extended rear L-bracket in tailor-made length on request

5. Power Cord

5.1 IEC power cord

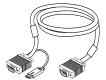
5.2 NEMA 5-15 power cord (US)

5.3 BS 1363 power cord (UK)

5.4 CEE 7/4 power cord (German)

5.5 AS 3112 power cord (Australia)









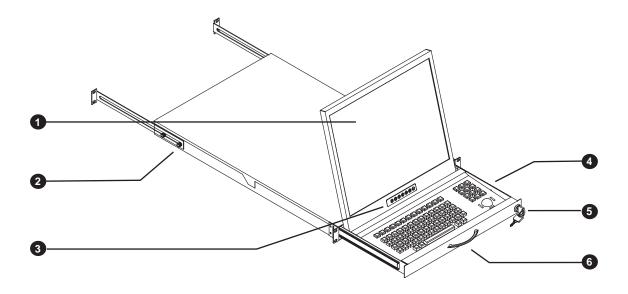


1.7 Peripheral Products

Chapter 1

| Item | Model No. | Description | |
|---|---|--|--|
| DB-15 KVM | IP-802 / IP-1602 CV-802 / CV-1602 CV-401 / CV-801 / CV-1601 CV-S801 / CV-S1601 | 8 / 16-port IP PS/2 KVM 8 / 16-port two console PS/2 KVM 4 / 8 / 16-port PS/2 KVM 8 / 16-port USB KVM | |
| UIP-1602 / UIP-3202 16 / 32-port IP Cat5 KVM U-1602 / U-3202 16 / 32-port two console Cat5 KVM U-1601 / U-3201 16 / 32-port high density Cat5 KVM | | 16 / 32-port two console Cat5 KVM | |

1.8 Structure Diagram



- 1 SAMSUNG Class A TFT LCD panel
- 2 Adjustable rear mounting L-bracket
- 3 LCD membrane

- 4 Full "Unix style" keyboard with numerial pad
- 5 Lock with keys
- 6 Arc handle

1.9 Installation Chapter 1

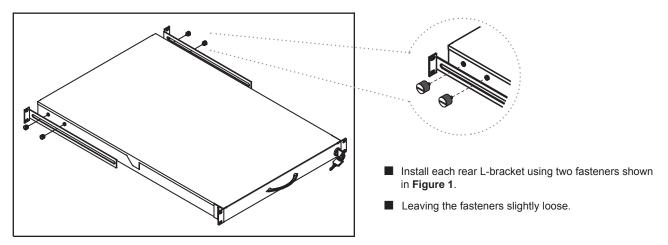


Figure 1. Installing the rear L-bracket to the LCD keyboard drawer.

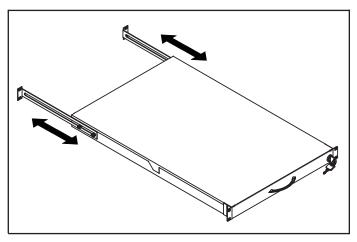


Figure 2. Aligning the rear L-brackets to a suitable length for the rack.

- Measure the front and rear mounting depth of the rack.
- Align each rear L-bracket to a suitable length and tighten the fasteners shown in **Figure 2**.

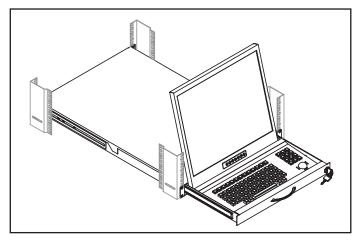


Figure 3. Fixing the LCD keyboard drawer into the rack.

- Fixed the LCD keyboard drawer into the rack.
 - * Hardware (screws and cage nuts) for fixing the mounting bracket to the rack is not provided.

1.10 Connect to Server via USB Interface

Chapter 1

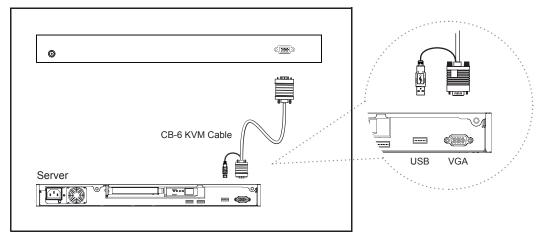


Figure 4. Example of connecting CB-6 2-in-1 USB KVM cable to server via USB interface

1.11 Connect to KVM via USB Interface

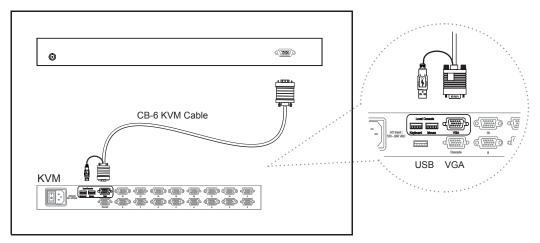


Figure 5. Example of connecting CB-6 2-in-1 USB KVM cable to KVM via USB interface

1.12 Connect to Server via PS/2 Interface

Chapter 1

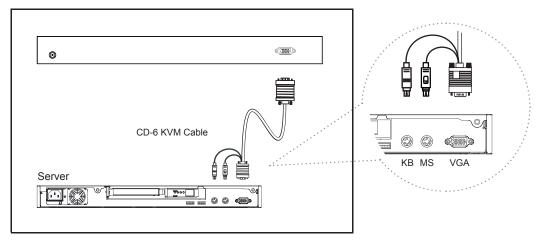
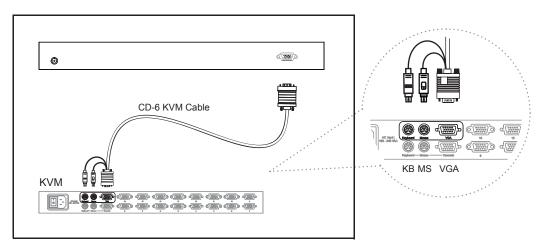


Figure 6. Example of connecting CD-6 3-in-1 PS/2 KVM cable to server via PS/2 interface

1.13 Connect to KVM via PS/2 Interface



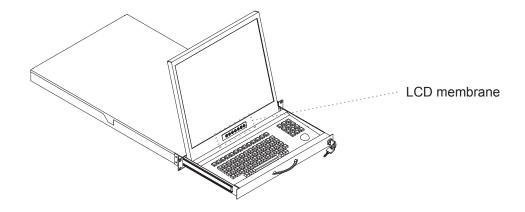
 $\textbf{Figure 7.} \ \, \textbf{Example of connecting CD-6 3-in-1 PS/2 KVM cable to KVM via PS/2 interface} \\$



Caution: The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage of the servers, KVM and LCD keyboard drawer. Before attempting to connect anything to the LCD keyboard drawer, we suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD keyboard is receiving power. The company is not responsible for damage caused in this way.

2.1 On-screen Display Operation

Chapter 2



| Membrane Switch | Function |
|--|---|
| 0 | Power light Green = On Orange = Power saving |
| | Power on / off LCD |
| M | Display the OSD menu |
| $\diamondsuit \diamondsuit \Leftrightarrow \diamondsuit$ | Scrolls through menu options and adjusts the displayed control |
| | Exit the OSD screen Shortcut key to auto adjustment by pressing the button for 5 seconds Of Toggle analog, digital & video connection (DVI-D and video options only) |

2.2 On-screen Menu Chapter 2



BRIGHTNESS / CONTRAST

Brightness: Adjust background black level of the screen image.

Contrast: Adjust the difference between the image background (black level) and the foreground (white level).

AUTO ADJUST

Auto Adjust: Fine tunes the video signal to eliminate waviness and distortion. An "Adjusting" message is displayed

during the process.

Auto Tune: Optimize phase, clock, position and size. An "Adjusting" message is displayed during the process.

PHASE/CLOCK

Phase / Clock: To enter into the phase & clock sub menu

H/V POSITION

H/V Position: Align the screen image left or right and up or down.

MISC

Information: Display the current resolution, refresh rate and frequency information on the screen.

OSD Timer: Set the time duration in seconds that the OSD is visible after the last button is pressed.

The factory default is 10 seconds.

Color: Select the screen color - 5500K, 6500K & 9500K. The factory default is 9500K.

Language: Select the language in which the OSD menu is displayed -

English, Chinese (中文), Japanese (日本語), German, French, Spanish, Italian

RESET Restore the settings to factory defaults.

3.1 Specifications

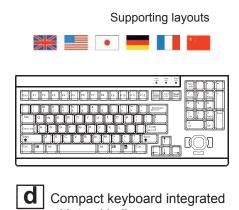
| Item | Description | | |
|-----------------------|---|----------------------------|--|
| Form Factor | 1U rack mounting on slide-out rails | | |
| LCD Manufacturer | SAMSUNG | | |
| Diagonal Size | 17" TFT 19" TFT | | |
| Max. Resolution | 1280 x 1024 1280 x 1024 | | |
| Brightness (cd/m²) | 300 | 300 | |
| Color Support | 16.7 Mil. | 16.7 Mil. | |
| Contrast Ratio (typ.) | 1000:1 | 1000:1 | |
| Viewing Angle (H/V) | 160° x 160° | 150° x 135° | |
| Display Area (mm) | 338 x 270 | 376 x 301 | |
| Tr Response Time (ms) | 1.3 | 1.3 | |
| LCD Panel MTBF (hrs) | 50,000 | 50,000 | |
| VGA Signal Input | Analog RG | B, 0.7Vp-p | |
| Sync. Type | Separate H/V, C | omposite, SOG | |
| | 640 x 35 | 0, 70 Hz | |
| | 720 x 40 | 0, 70 Hz | |
| | 640 x 480, 60 | 0/ 72/ 75 Hz | |
| Resolution | 800 x 600, 60/ 70/ 72/ 75 Hz | | |
| | 1024 x 768, 60/ 70/ 72/ 75 Hz | | |
| | 1152 x 864, 60/ 70/ 75 Hz | | |
| | 1280 x 1024, 60/ 70/ 75 Hz | | |
| Plug & Play DDC | EDID 1.3 | | |
| Console Port (Combo) | 3-in-1 DB-15 connector for VGA / keyboard / mouse Support USB & PS/2 servers or KVM Switches | | |
| Power Input | Auto-sensing 100 to 240VAC, 50 / 60Hz | | |
| Power Consumption | Max. 40 Watt, Standby 5 Watt | | |
| Compatibility | Multi-platform - Mix PCs, S | UNs, IBMs, HPs & DELLs. | |
| Regulation Approval | FCC, CE | | |
| Options | | | |
| Keyboard & mouse | Desk top size keyboard w | vith touchpad or trackball | |
| Graphic Input | DVI-D, BNC, S-Video | o & RCA video input | |
| DC Power | DC power input with 12 | 2V, 24V, 48V selection | |
| Touchscreen | Resistive and capacitive type touchscreen selection | | |
| Environmental | | | |
| Operation | 0° to 50°C Degree | | |
| Storage | -5° to 60°C Degree | | |
| Relative Humidity | 5~90%, non-condensing | | |
| Shock | 10G acceleration (11ms duration) | | |
| Vibration | 5~500Hz 1G RMS random vibration | | |

3.2 Keyboard & Mouse

Chapter 3



Compact keyboard integrated with touch-pad mouse



with trackball

4.1 DVI-D Option

Chapter 4

3-in-1 VGA KB mouse DVI-D console port



Remarks

- Package includes a 6' DVI-D cable
- The depth of RKP1617 / 1619 series will be extended from 700 mm (27.6") to 740 mm (29.1")

4.2 S-Video + RCA Input Option

3-in-1 VGA KB mouse S-Video RCA console port



Remarks:

■ Package includes an extra 6ft S-Video and 6ft RCA cables

4.3 S-Video + BNC Input Option

3-in-1 VGA KB mouse S-Video BNC console port



Remarks:

■ Package includes an extra 6ft S-Video cable

4.4 On-screen Menu for DVI, BNC, S-Video & RCA Input Chapter 4

1. Image

Brightness: Adjust background black level of the screen image Contrast: Adjust the difference between the image background

(black level) and the foreground (white level)

Sharpness: Adjust the image from weak to sharp Saturation: Adjust the saturation of the image color

Hue: Adjust the screen hue value



2. Geometry

Auto Config: Adjust automatically sizes, centers, and fine tunes the video

signal to eliminate waviness and distortion. An "Adjusting"

message is displayed during the process.

H. Position: Align the screen image left or rightV. Position: Align the screen image up or down

Clock : Adjust the clock value

Phase: Adjust the phase value



3. Function

OSD Position: Adjust OSD menu horizontal and vertical position

OSD Zoom: Adjust the difference between the image background

(black level) and the foreground (white level).

Color Temp: Select the screen color - 5500K, 6500K & 9500K.

The factory default is 6500K.



4. System

Language: Select the language in which the OSD menu is displayed -

English, Chinese (中文), Japanese (日本語), German,

French, Spanish, Italian.

Time: Function is not supported Power OFF: Function is not supported

Reset: Recall returns the adjustments back to factory settings.





Note: The current resolution and refresh rate information show on the top right hand side of the screen when the LCD is powered on.

4.4 On-screen Menu for DVI, BNC, S-Video & RCA Input Chapter 4

| Main menu | Sub menu | Display mode | | | | |
|-----------|--------------|--------------|--------------|---------|--------------|--|
| wain menu | Sub menu | VGA | DVI | S-Video | RCA | |
| | Brightness | √ | √ | √ | √ | |
| | Contrast | √ | √ | √ | √ | |
| Image | Sharpness | √ | √ | √ | \checkmark | |
| | Saturation | Х | X | √ | √ | |
| | Hue | Х | Х | √ | \checkmark | |
| | | | | | | |
| | Auto Config | V | N/A | N/A | N/A | |
| | H. Position | V | N/A | N/A | N/A | |
| Geometry | V. Position | √ | N/A | N/A | N/A | |
| | Clock | √ | N/A | N/A | N/A | |
| | Phase | V | N/A | N/A | N/A | |
| | | | | | | |
| | OSD Position | V | \checkmark | V | \checkmark | |
| Function | OSD Zoom | V | \checkmark | V | \checkmark | |
| | Color Temp | √ | √ | √ | \checkmark | |
| | | | | | | |
| System - | Language | V | \checkmark | V | \checkmark | |
| | Time | √ | \checkmark | √ | \checkmark | |
| | Power OFF | √ | \checkmark | √ | \checkmark | |
| | Reset | √ | √ | √ | √ | |

| Sign | Represent | |
|--------------|----------------------------------|--|
| \checkmark | Available and adjustable | |
| X | Available but not adjustable | |
| N/A | N/A Not available and adjustable | |
| N/A | Not available and adjustable | |



| Model | 12V | 24V | 48V |
|-----------------|---------|----------|----------|
| Input rating | | | |
| Input voltage: | 12-Volt | 24-Volt | 48-Volt |
| Input range: | 9 ~ 18V | 18 ~ 36V | 36 ~ 75V |
| Input current | | | |
| - No load | 50 mA | 50 mA | 50 mA |
| - Full load | 4950 mA | 2450 mA | 1220 mA |
| Output rating | | | |
| Output voltage: | 12-Volt | 12-Volt | 12-Volt |
| Output current: | 4.16A | 4.16A | 4.16A |
| Efficiency | 84% | 85% | 85% |

Remarks:

- Package does not include power cord and AC power adapter
- The depth of RKP1617 / 1619 series will be extended from 700 mm (27.6") to 750 mm (29.5")

4.6 Touchscreen Options



e-Resistive

| Model | -17TRB / -17TRS | -19TRB / -19TRS | |
|-----------------------|---|-----------------|--|
| Screen size | 17" | 19" | |
| Interface | USB or Serial | | |
| Optical transmittance | 82%±5% | | |
| Surface hardness | ≥3H (JIS K5400) | | |
| Operating system | Windows 98 / 2000 / ME / XP / NT / CE, DOS, Linux | | |

3M Capacitive

| Model | -17TCB_3M / -17TCS_3M | -19TCB_3M / -19TCS_3M | |
|-----------------------|--------------------------|--------------------------|--|
| Screen size | 17" | 19" | |
| Interface | USB or Serial | | |
| Optical transmittance | 88% | | |
| Surface hardness | Mohs' hardness rating: 6 | | |
| Operating system | Windows 98 / 2000 / ME / | XP / NT / CE, DOS, Linux | |

Remarks

- USB touchscreen package includes an extra 6ft USB cable, quick reference guideline and CD disc
- Serial touchscreen package includes an extra 6ft serial cable, quick reference guideline and CD disc
- For detailed information, please refer to the attached CD disc
- As the touchscreen unit is not made of toughened glass, please handle it carefully.
- With touchscreen option, the height of RKP1619 will be changed from 1U to 1.5U.

5.1 Troubleshooting

Chapter 5

1. How do I adjust the resolution?

To change monitor resolution, click Start -> Control Panel -> Display. Select Setting tab to adjust the monitor resolution in Desktop Area. The available resolutions, "640 x 480", "800 x 600", "1024 x 768", "1152 x 864", "1280 x 1024", are determined by the display card in your computer.

2. Is interference signal appeared on LCD normal when shutting down the computer?

In rare cases, interference may appear on the monitor. This may be caused by signal rate of VGA card and is considered normal. The image quality can be improved by adjusting the phase or pixel rate automatically or manually.

3. The membrane power light is not ON

Press the power On / Off on LCD membrane to check if the monitor is in the ON mode. Check the power cord is properly connected to the LCD keyboard drawer and power outlet.

4. Screen image is not centered or sized properly

Press the houtton for two seconds to automatically adjust the image. Adjust the H-position and V-position settings via On-screen menu.

5. Is the LCD keyboard drawer hot-pluggable?

The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVMs, may not be hot-pluggable. We suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD keyboard receives power.

6.1 Dimensions Chapter 6

| Model | Product Dimension | Packing Dimension | Net | Gross |
|----------------|---------------------|--------------------|--------|--------|
| | (W x D x H) | (W x D x H) | Weight | Weight |
| RKP1617 series | 442 x 700 x 44 mm | 589 x 856 x 168 mm | 18 kg | 24 kg |
| | 17.4 x 27.6 x 1.73" | 23.2 x 33.7 x 6.6" | 40 lb | 53 lb |
| RKP1619 series | 442 x 700 x 44 mm | 589 x 856 x 168 mm | 19 kg | 25 kg |
| | 17.4 x 27.6 x 1.73" | 23.2 x 33.7 x 6.6" | 42 lb | 55 lb |

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